

Res Amis 23° 1872 De at En gelmain It is put easy to say to be I'm about these o'mes, as to promendature. One the while the least difficult evagant Mu mildde is fruit by sticking to the me of frinty. My grue have fruit out Me Or Californica Lorsel, 's = D. in signis, than others evenly pid it nut too, and som the at have fived uned claimits nights. Jagi Atran 1, P. Californica Lund. 1813 Syn, O. unignis soupl. O', sud ata & luter cutata Ant there manes fruited on comes only trare por god clave -2. O. tuler culata Brita, 1849, evened then stand for the species it 5 Sundy applied to 1/20

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MISSOURI BOTANICAL GARDEN A. Matt mi ana 1853, Lymhn 1878. showed I think he preferred the A. Hokeriane might

for kift up with a good sharing MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS MISSOURI BOTANICAL

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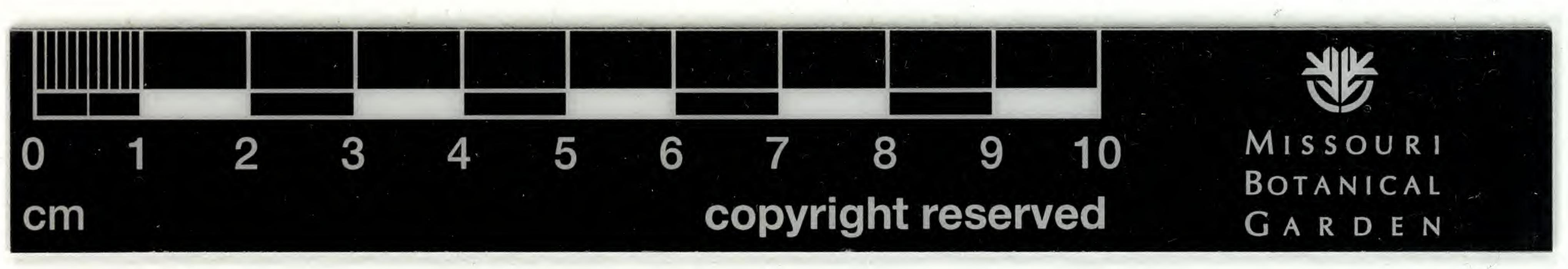
GARDEN

cm

Mun Kend Sept-10 1869 Pinas sudiate Hook & Am. Der Buchy 1.392 copy of Don's Service en with the infolicit termis?" adding that we possess the same collect it befire "et. Fine radiate the come was noticed p. 392 and if we are correct in referring the species to Donish and ata the leaves Tim melit are worstandly quinte ja fost long, ... the sheathy 2 which long the leaves were waknown to the Don.

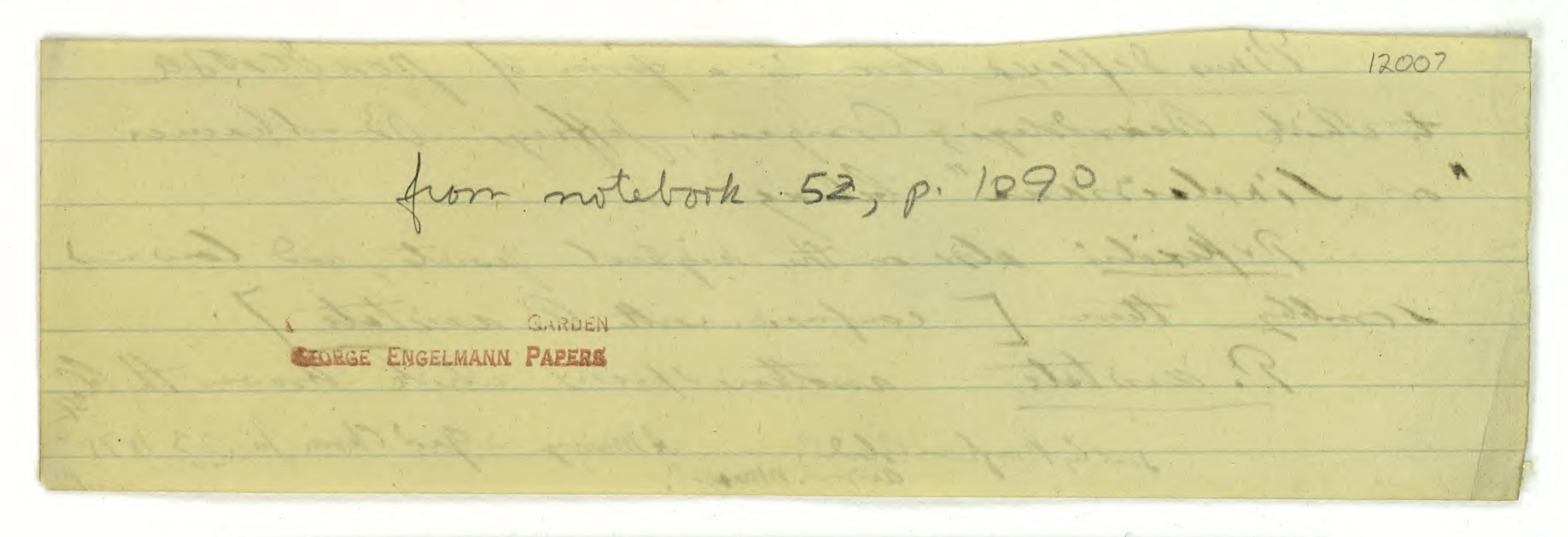






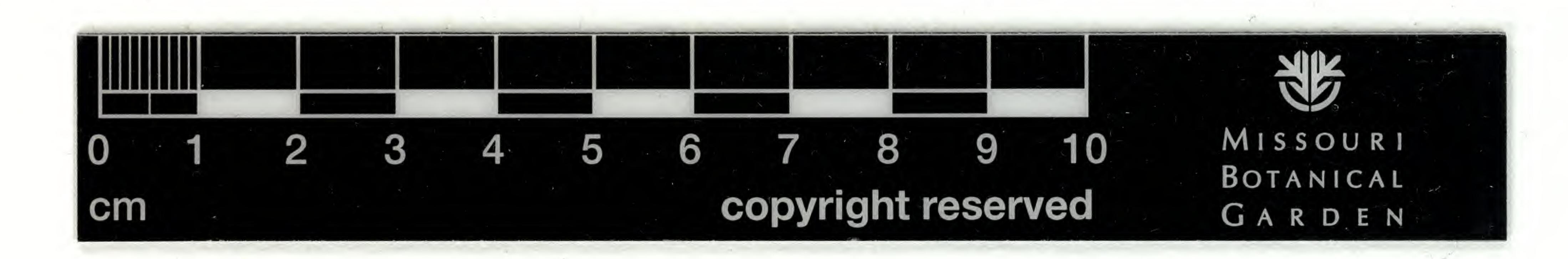
Times defleys dom is a gome of pondersta to Which Bearstleyi, Craigana, Jeffreyi, Buthamei "or Sindersina" belong Poplerilis also on the highest points, and low and Sombly there I confusion with P. anstate I unstate another speries which ones the leg sent by Royl Colad? A Murry - gard Chron Jan 23 1X75.

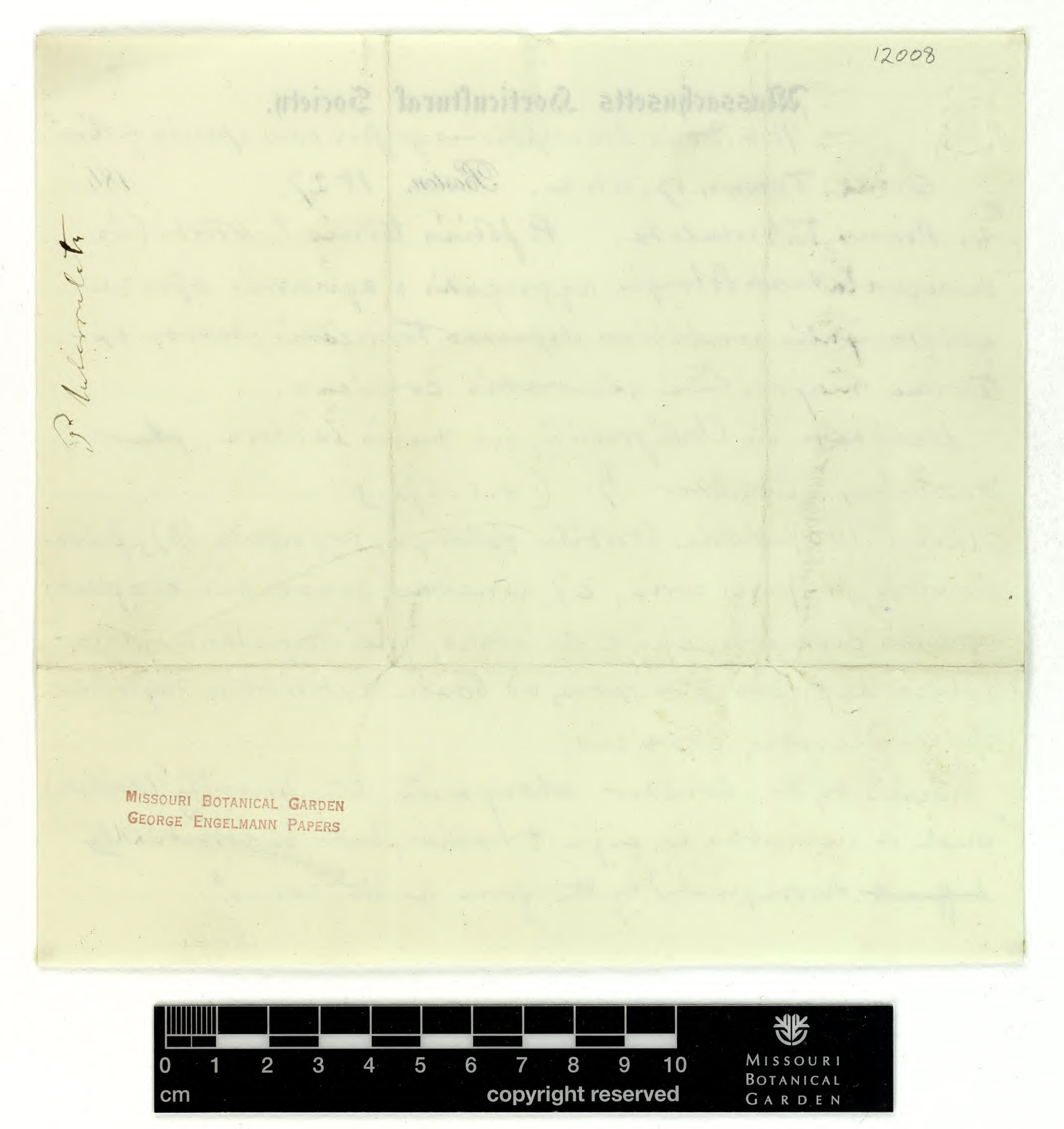
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




Massachusetts Korticultural Society. Inn, Trans, 17, 442, Boston, 1437, 4. Pinns tubmulota. P. Johns tionis! strokitis maigni laterate dolongis aggregatis! egnamis aprèce quadrangulis umbilies depresso truncatis; bases externae majoritus gluvatus comicis. Habitat in California, in mores latter al monterey, Coulder J. (V.S. Sp.) Arbro wopedalis. Strobili oblogi, aggnefati (3), fulnoconver, 4-pollicars, 2/ univas crassitur adaequant: agnerms currentis, aprèce de latatis, quas varyulantes, umbeilico depresso truncario, ad basin Exteriorem najoribus aprice elevatio, comicio, From S by to. Coulter along with the pricedy (Bradian) which it resembles in sign & habit, but is essentially I the analytic the the







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n San Simeon Day, fan South of Monterey astanler - Ett Descaderer is the norther most point Bland litt Row 28 10 by lubroulets not non Monterey



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American Association for the Advancement of Science.

RECOMMENDATION TO MEMBERSHIP.

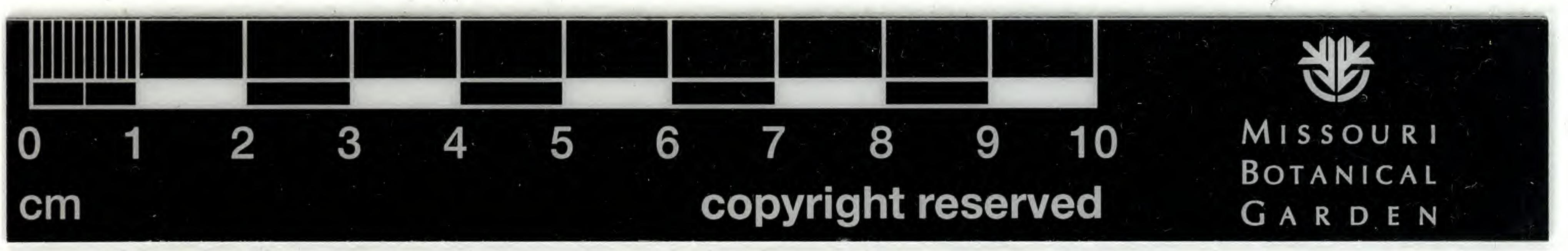
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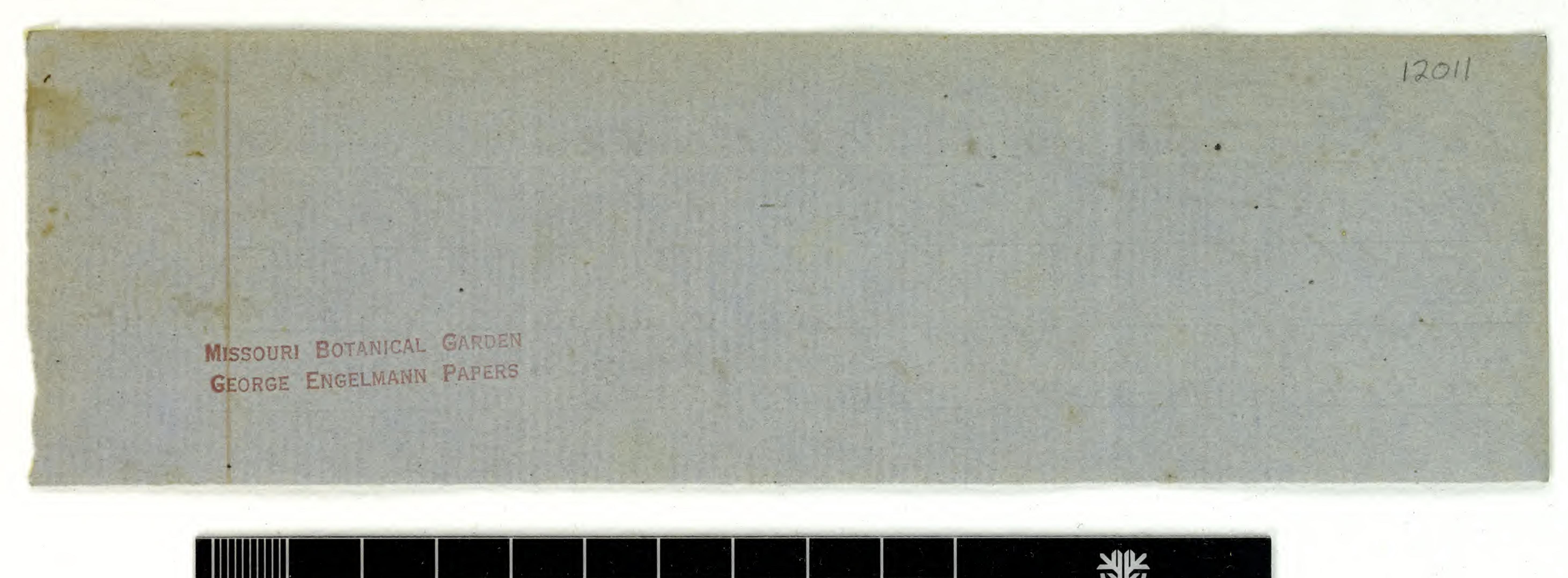
The undersigned recommend to Membership of the American Association for the Advancement of Science,

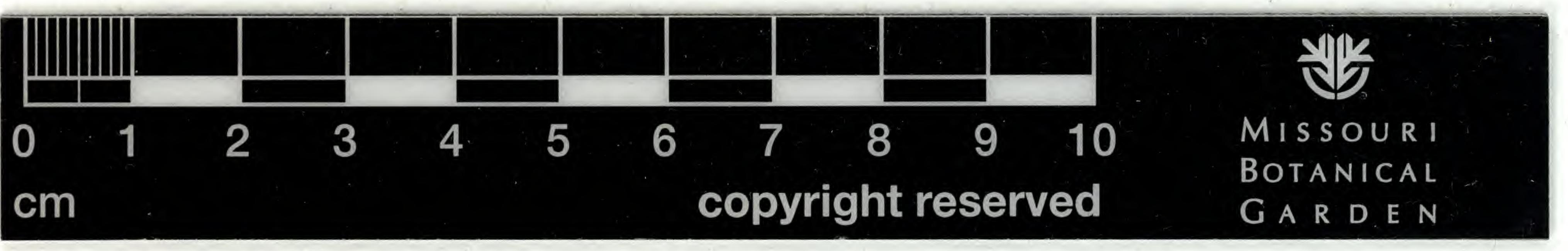
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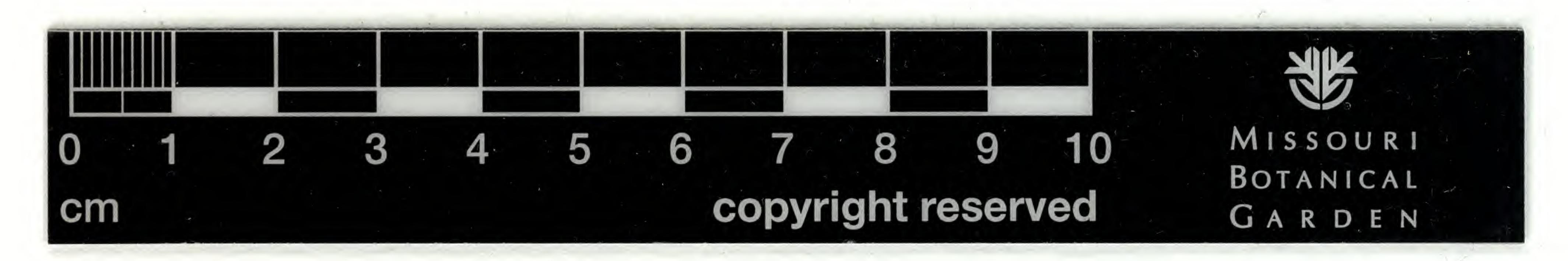
Philippes, Mutery, only Pine there except P. Inversety Sole. - CH Cot 14 1868 to very referred from P. Liberoulate - teaver not more than 3 years old cole. Odlo 1865 Santi Cry _ south of Jan Winner Oday







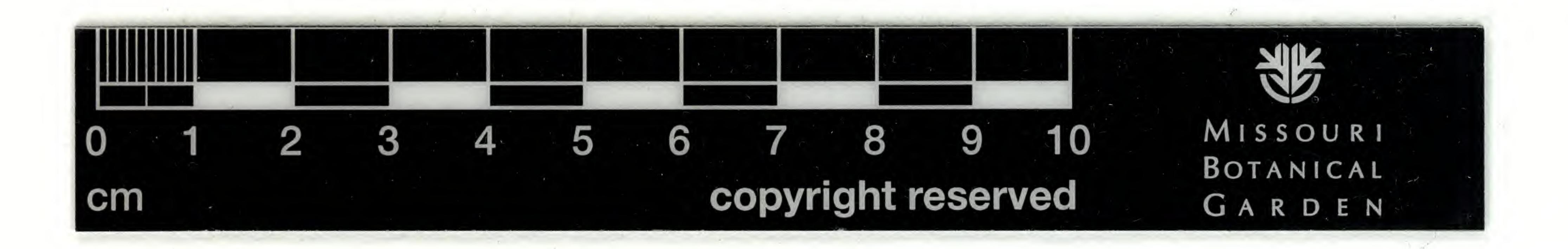
is in D'gregg's sperimen about 3/4 inch apart, in the I of a broad triangular brack, 4 l. long, upwards smeller ers I'h inches long, ovary, tube and lobes of nearly equal t, & believed, or tube a little shorter and lobes a little longer. nens inserted about 2 or 3/2 up the tube not at the base



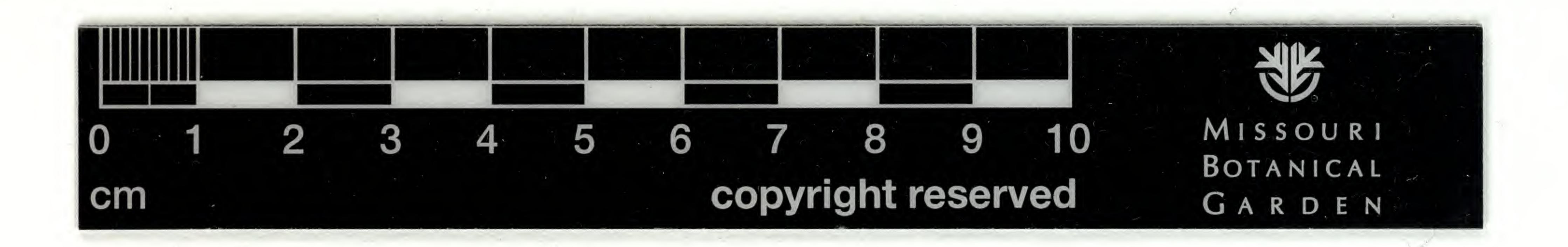
bineta Juable of 3 Kinn shøjeni, van Asle Cel 7/2 cirmfen MISSOURI BOTANICAL GARDEN for Ochner Och 18/16 GEURGE ENGELMANN PAPERS

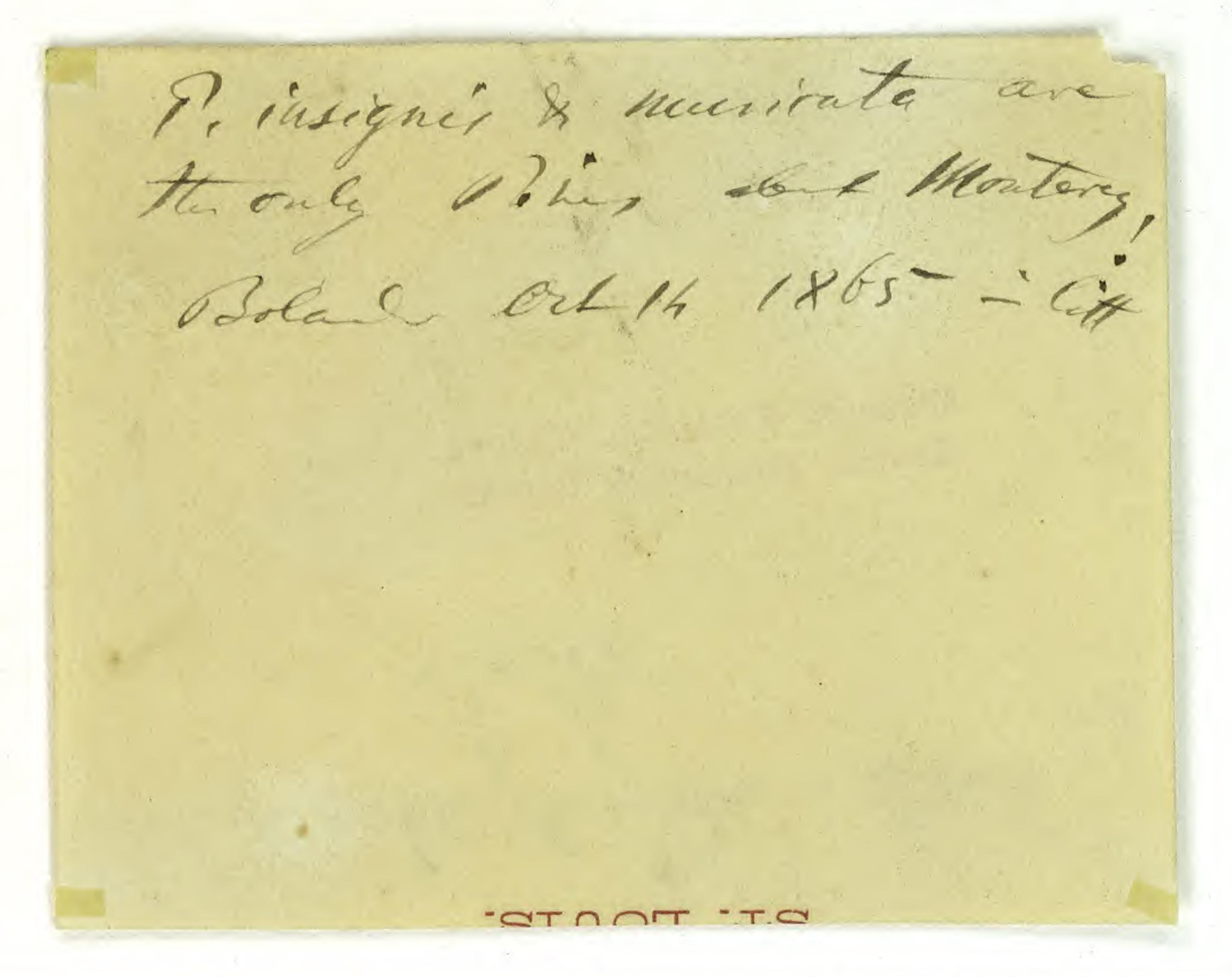


The coast ranges wet moir - let to & Parry mans 1864

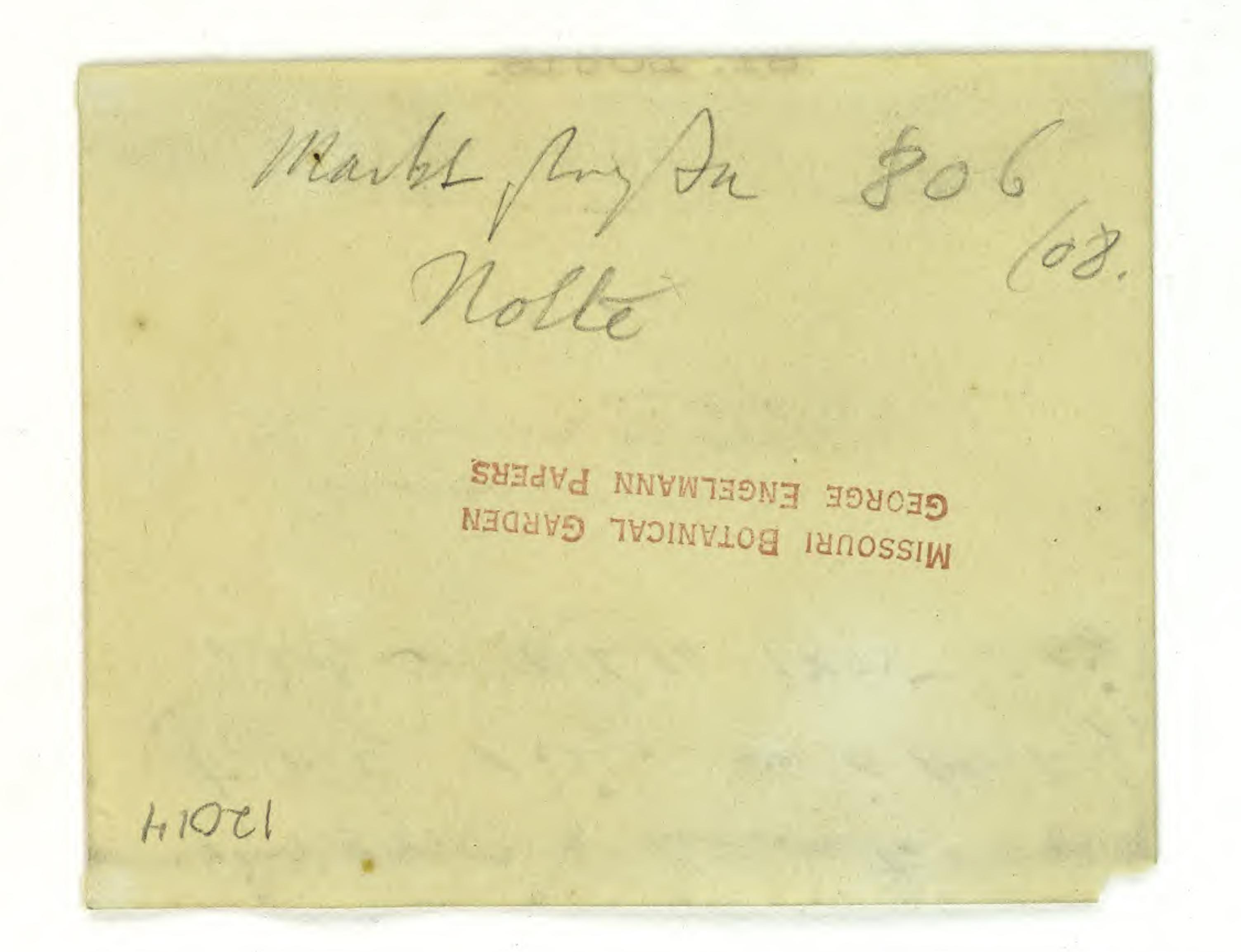


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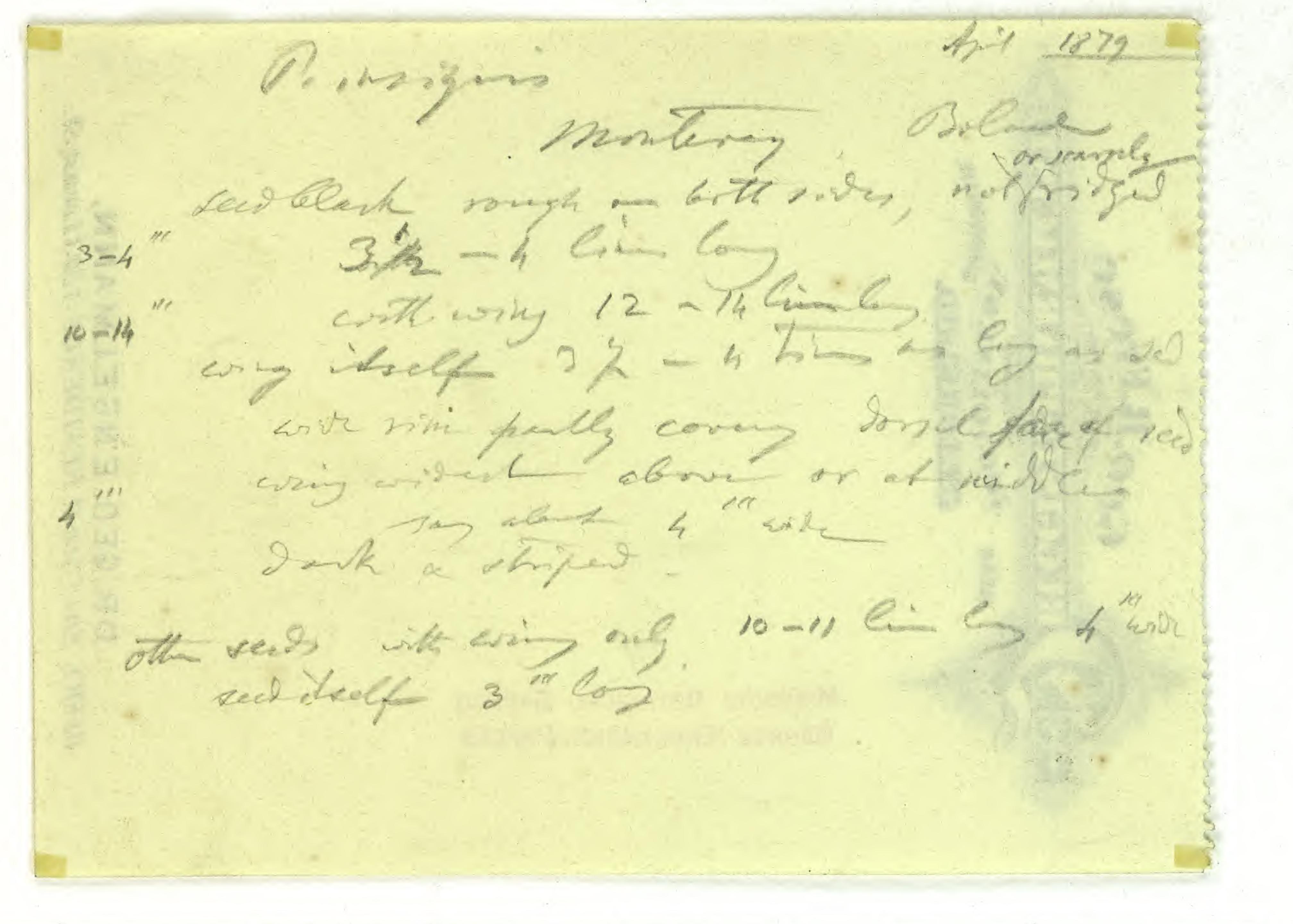










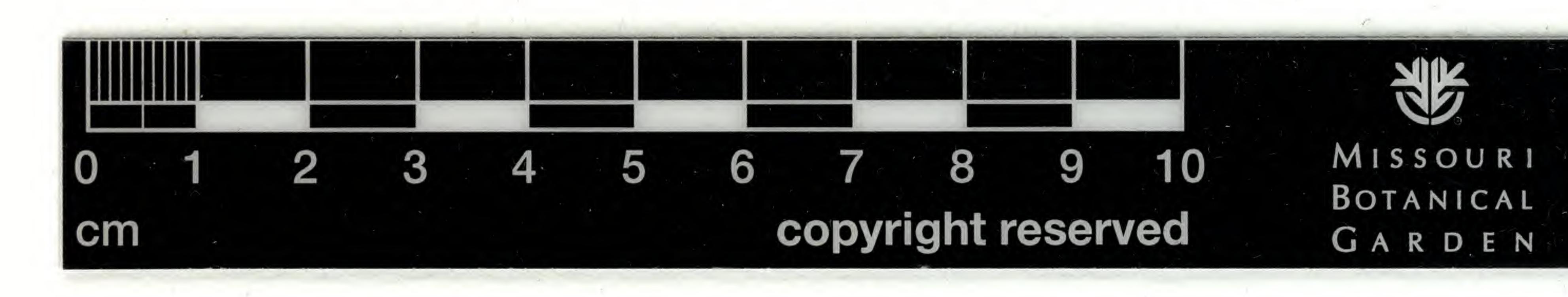


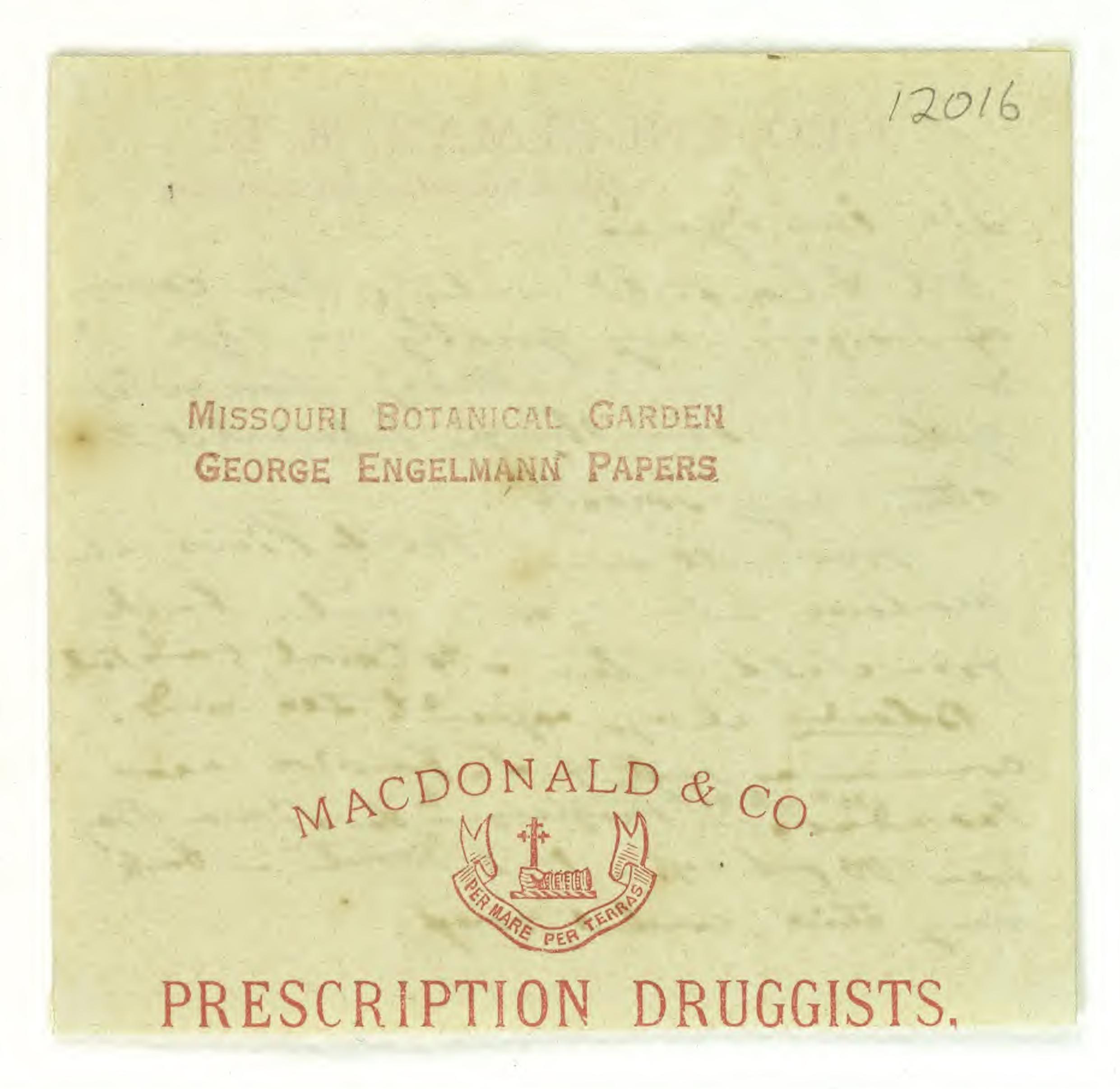


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GEO. ENGELMAN, M. D. Office & Residence; 3003 Locust St. So CA Canfield writer, The comes of jusigain vary greatly in size it ti men ions - allery more orles gibbon - som though, laboralités grows ell over Point Pinos, at Markery and 2 and miles Fresh from Neld writer - to Carmel, 5 miles south Bolende along appendt Jea wind. Resorder of Set Confling to Li fines Bay Trees 100 feet hoff - 1-3 diamet - Back very thich, coulded, much

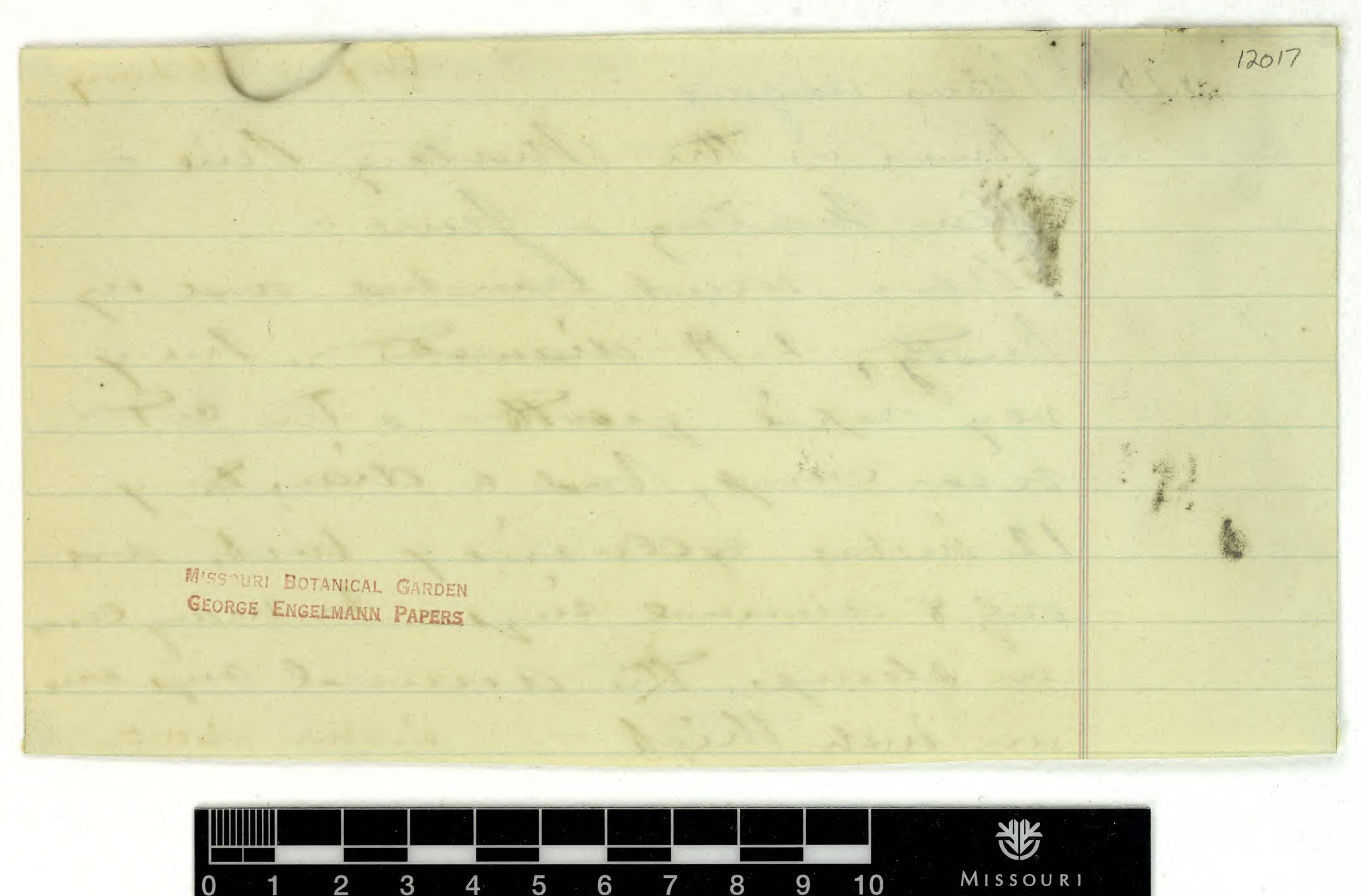






62) Penn, insignis California State Survey May 21 1861 Known on the Monterey Pane Near Monterg - June -Then much branched and very trusty, 2. A diameter, hung veg ropre grantor a tros cut trear camp, book a drametor y 12 inches exclusive y back, and ong 8 annae rings - he many come on slumps, the annual rings are an inch Mich - Org Brown mis. 1865







Det-6 1870 Pinus Californira Soiseleur in Nouveau Schamel V. 243 Louden Abor. Brit. IV. 2268 (1838) Carriera Comit. p. 353. (1855. for Monterey bott græ vaftriert extrat. The plant is remarkable as the come was sout home by Collignon The gadner of Lapryroose; Expedition 1787. Come conexament to 6! primaster, but larger - seed laye a s'ed ble ! similar to Cembra - lvidelly som Confusion and the orane and be Dopped. The tree, mised in the fand is I blenty from these zeed Stappear & about 1814 - in 1812 if was I feel high with day gam leave, 3 inches long. Jødefrog en her nursery had one as Oslanovia informed Loudon (therefor 1834?) and propagate from it a & sold it as their mortherigensis or monteringensis or montereyour Lett Hostional. Sor garde, London there was a started speria, 1838, nour for Josefroy about 1829 a Ceary chiefly i 3', 2-3 incher long, with short black sheath," Loudon skuking of their Louden specimen) i -The plant is evidently d'insignie, but on acrount at the swrong description of the seeds must be given up, MISSOURI

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GARDEN

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ttolitulle fourne 1. 123 from Harburg's Journal Montevey & Lun 184/ 37 i where town mountain, of the Each of loving - occupied leg V. insigning bo- 100 feet byt 2-4 feet Nam. væries much i sige of leaves and cones of 200 - 300 feet 16 leans on 4/2 - 5/2 inches com 4-4/2 1'arken long & 2/9 broad reat beach lean I com d'initish these difference, too the significant to constitute varielier, have give sixe to the naver tuberoulate a sassata Con, i cluster, remain, several years on here





Sinus insignis Dougli Loude 1838 J. sadsate Don 1837 my rome 1. California Louis 1813 non Marko De ty Corralate Don 1837 non Gordon et (see Camin?) 1126-46 MISSOURI BOTANICAL

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GARDEN

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15. Pinus Californiana. _ P. foliis geminis ternisve, gracilibres; strobilis folio multo longioribres.

Je n'ai pas ern devoir négliger de faire connaître cette espèce, quoigne le seul individu que j'aie vu au fardin les Plantes n'eût ni fleurs ni fruit; la nobe qui m'a été commignée par m. le professeur Thouin ne pouvant laisser de donte sur l'existence de ce lin, comme espèce distincte. Cet arbre croît dans le voisinage de monte-Rey, en Californie. Un de ses cônes, recercilli par Colligon, jardinier de l'expédition de la Peyrouse, fut envoyé au Muséum d'Histoire naturelle en 1787. Ce cône avait la forme de celui du grand Pin maritime, mais il était plus gros d'un tiers dans toutes ses dimensions. Sous chacune de ses écailles se trouvaient deux semences de la grosseur de celles du Pin Cembro, et dont l'amande était bonne à manger. Ces graines, services au Muséum, out produit donze jeunes plants, qui, cultivis

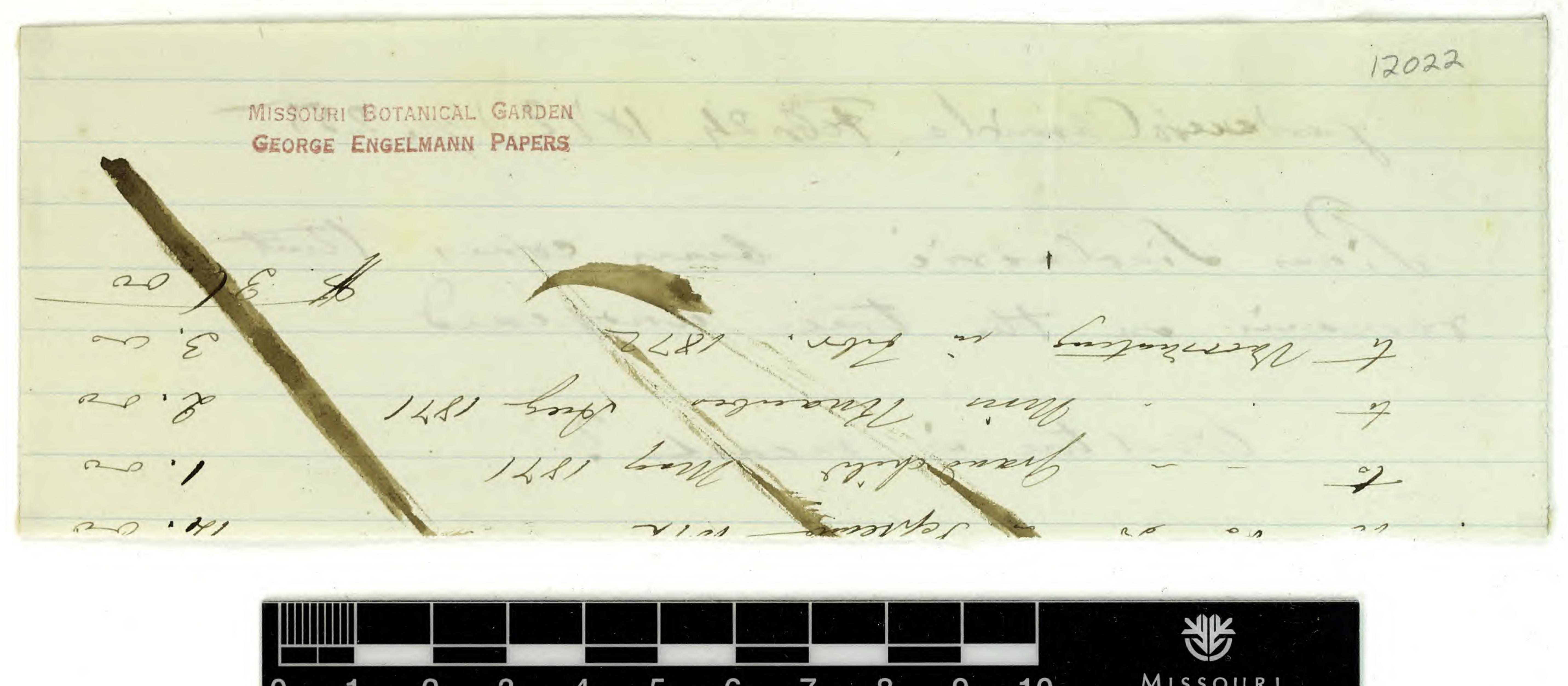


dans l'orangerie, se sour conservis pendant long-terns. La plupart out été donnés à des cultivateurs des départemens måridionaux. Il en existe encore un pied an fartin des Plantes, place depuis quelques an. nées en pleine terre dans le lieu nommé la petite butte; sans être très-vigoreux il ae maintient en santé. J'ajouterai que cet arbre a environ sept pieds de hant; que ses femilles sont longues de trois ponces, très-mennes, d'un virt-peu foncé, et quielles sont réunies deux on trois ensemble dans la même gaine. Nouv. Buhamet, V. 243. (1812.) Loiseleur-Destongchamps. GEORGE ENGELMANN PAPERS



gardeners Chronièle Febr 24 1872 /2. 258 Linus Sinolairie benn comes that Want true es meant 3

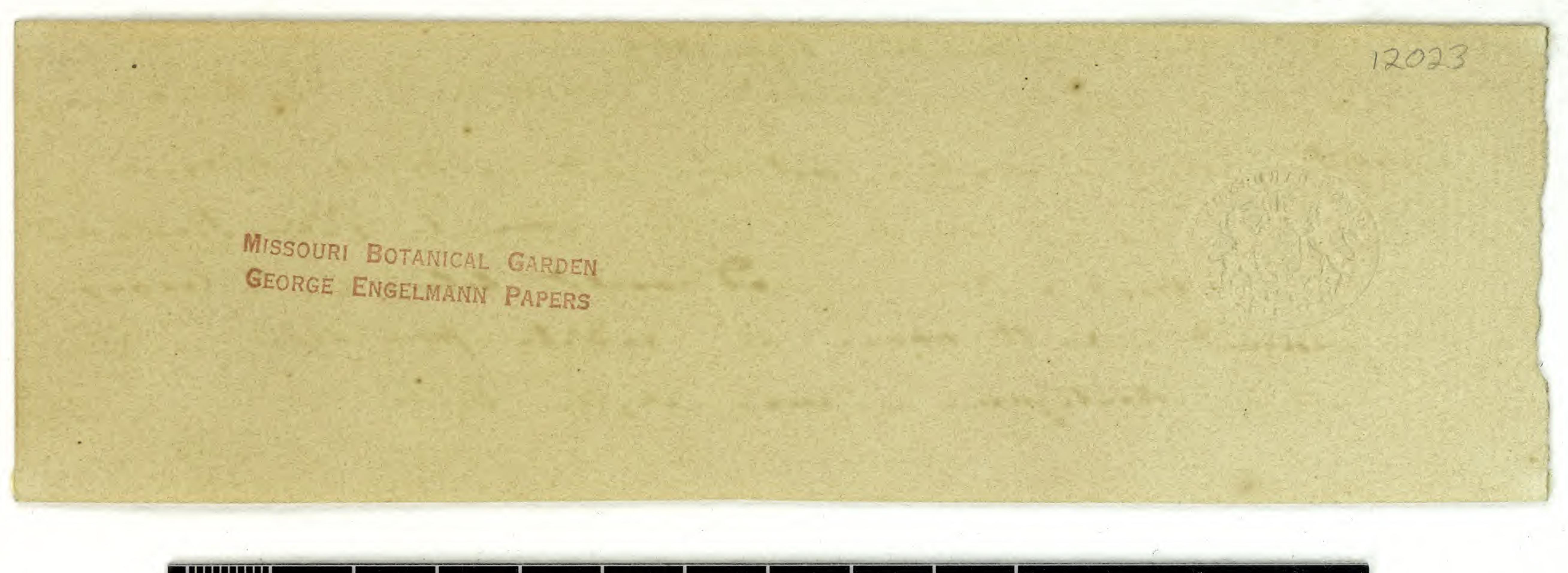






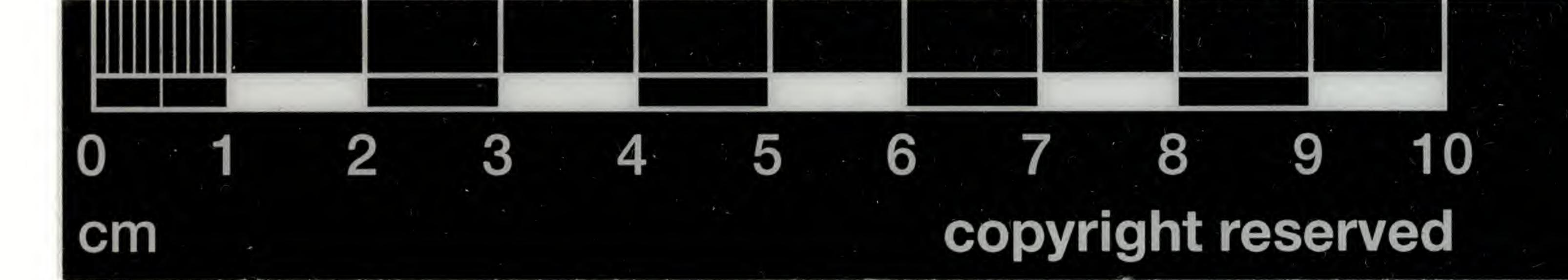
There is a cone, now libeled Paustrelis! without any Correlity, which is wearly a food long and as South Meximum Stock may be the origina come to Pines Sindani. Hook & Am. dat world belong to the leaves preserved und the name of modiste from Zepin. His or of the Montegone on marrophylle bribe.





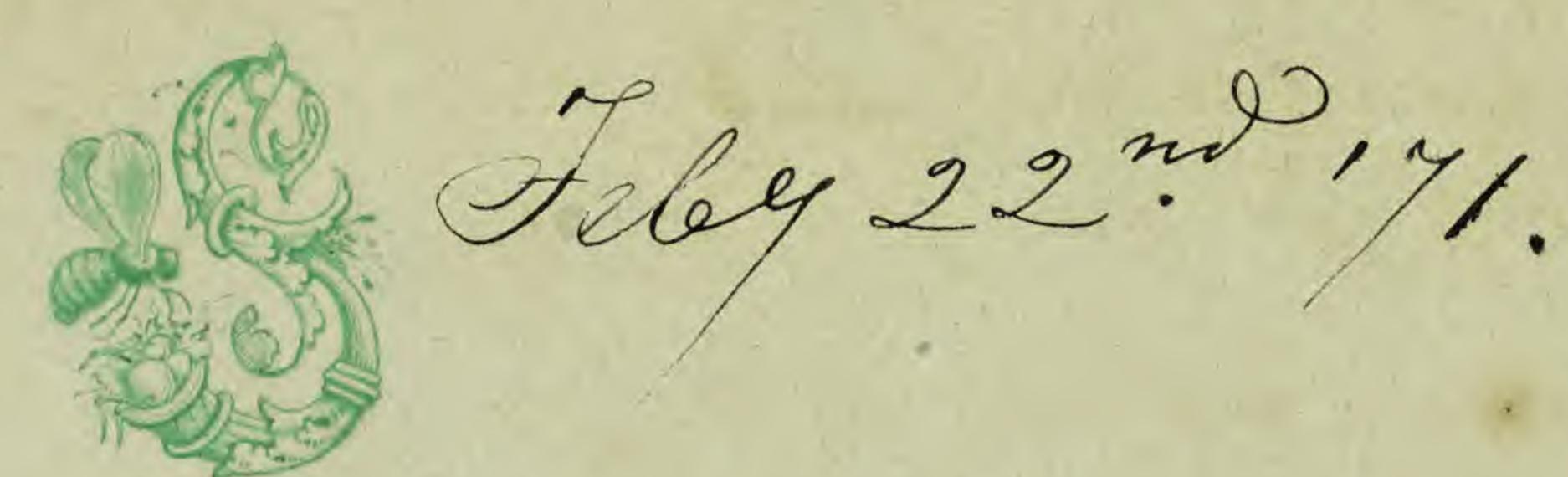


Gardan Chroniste Lan 28 18/1 Myr 103 It appears from the researcher of & Cagelineanin that the so ralled lines Sinclairing has no real existence and that the plants i Bot Deceley regress the foliege of P. insignis and the come of P. Montesting ib. 460 4 1871 p. 139: Andrew Munay writer! Their contitue can not , which would sind at be a matter of mes and only that no such tree has been found since! in the wish At 18th bottomen Tapir and Menterry de the present its have a am we prepared to acrest & Eagelson , iter prelation of Nooken w Anoth figure - Cears too stout for rusignes [- figure 1 Dol Dy The Come tellings to a Sifevert section for Monteques though Hooking of tours of tours of like it _ It belows with to the parties and i Citica stout Bankhamiana othich belongs to ponderosa togette with my O'Dandlegi k O. Congrana Ith Soul make menting of fiftingi! I - the two latter and the norther for, the Carger count weathering good do itt of Jon Francisco and the layers, Surlaine At latore take the same They south. an'ans.





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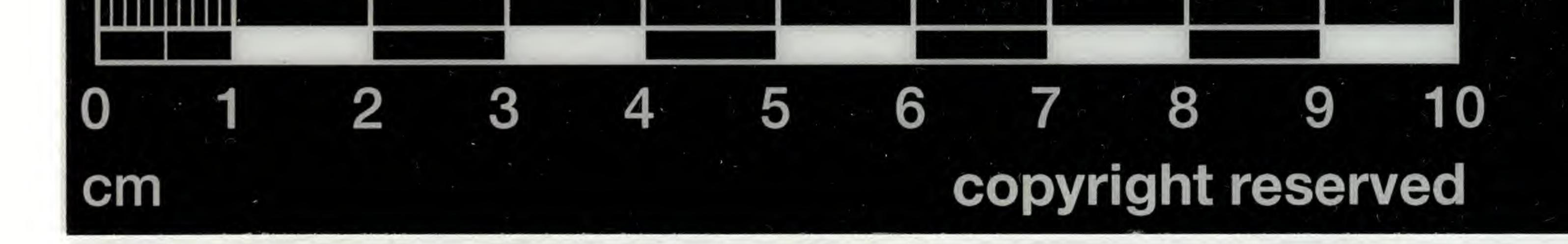


My Dean Sio. 19e pleased by few mides Mus enclasure omhundud Donnes. Which within a half hour were lost, by me-and Menfound, _ on Mr 18 boudes floor on my going then with your chloral prescription. The ocl cloth on theflows there-is divided at intervals into little Squares - the Rose of which and even the greenish blurred design, tesembled my batch of green backs-fallen as of had with the back of the enterior with

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Pinus Sindainard. On page, 139 the visual of my researches as to the Sulis of This Pine, published on page 103 is not accept a lay Munden Munay at the opening express that it is a large come form of the flooderson, an opias shared by Int Vallatore. California botandt sunfach it to . be a form of Piar-zonis with amountly large Cones Mour my researcher were mude altogether in Her and on the original special comments The descript of structure of Hooker at Anoth. The species specient of the blub with a to bruch of " radiata" from Lepit with the long and stout Ceause of O. Montequemae, & 5 in a Theath 1/2 of "P. Sinclaiside of me Monterey with Headen and deeply as sharply serrated (a character istic peocleanity of thisplant I leave of O. 14/2. Le the Musseum is a come market medition an union of moints = msigning ! S. Muito State ?! wash into the washing a come of P. Monteyou Att form nand Sevonsana, Their I take to be the original of the figure of the cour of P. India. though the langt is perhaps I much advanted worth to init ten the figure represent it. Bether as it may the leaves in the Hubari som there There are two special muly is the therband of all card one authorities Jecin of come to these too plat, It museum, which all belong to twoll known species and an perfectly in acrondetely with what was how of the · Miles i thou contines as soon as we refranche the comes and correct the confine white & findain may so easil have made in



Take their opportung to consul another as now well the will describe the form of the wall of the content Cook Colorests tell us that there are only Two spains of the grow's there (? muentate & Propagais the (many spening of vanis vige at shope are my persent) I suppose that the Come of your is a sleader come of Porhisains. Can not though The original come of the Labourelet of Contley Collection blanford et reex recient I contexte is a facel small tree from the Avangs on the Leavisle, growing from horth California to the that has, will short a very Hear leaves. The only call vito Their Leen by me ejfert itt Wotant gard of Ediles and the Man of I! Muloragan sled learn of variety. The plant of motions call of contorty of the calif & graso the call of the dawn in either a frondleand mountain to of the Jame on suchage a Notint species Such much P. Belfourian is andien name of the Heing while I have jude the am of of I somether it this letter is the Morky Monting an item I to form it not gate of performs an 1 to the Californ Hele Af Mull Caseste

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of P. Belformen vone of for Jeffreg & Leed. and now about two feel bight has ford I call muche flowers & the Gol gavent Colons. the hand Tophospen Lig rant give way totte earlier problème Or Forregana Pany Alien Pettonana, to which It Hookevinn al A. Williams on: belong is an abaronne Fruga with 3 Cold poll-gelly a Pine, while the It I sugar beautive the following horizonia. aft and father lit that of dany MISSOURI

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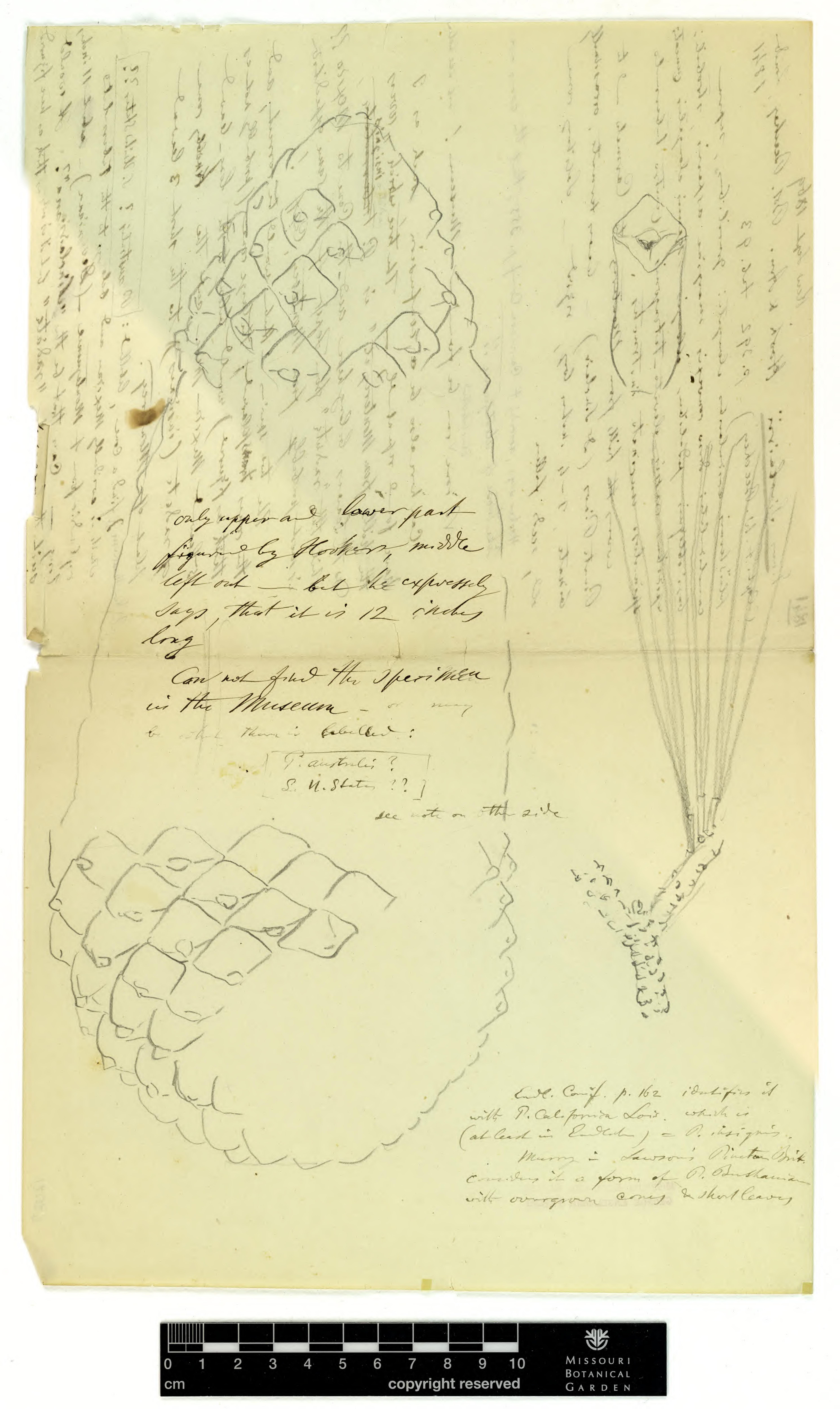


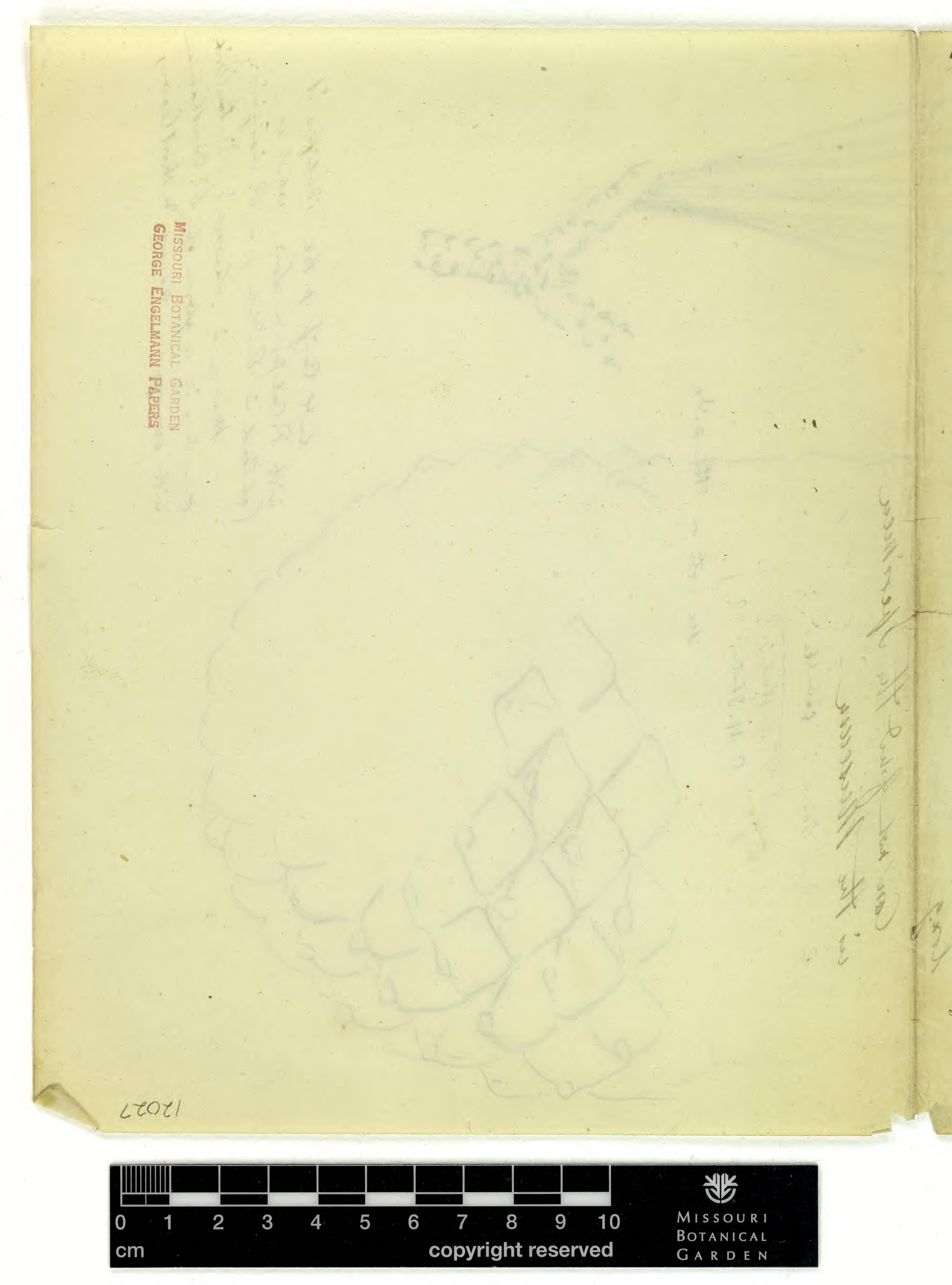
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184!
Ninn Sinclairi Hook & Am. Bot. Beecher, London
Cayl. F. W. Beecher) p. 392 + 16. 93 folisterni anvalantes elangete; gravil. bur, supra cambaletis dans rouvejes magine aspenis, shrobili: bass' obliguis pedaliten, oblongis squais elongetis cuneatis spirabel massis elevato-tetragonis tentro blemelo spindos uminato instructis. covers the hills from monteres to Carmelo It Viente Pinos (& Sindair) - Com termete, orrasitally lenate, 1-4 inster log, ngid _ Selitag rome old, such fallen. Hooker says, amond; to Carriere Comit p. 355, that the com, eve Cike Those of Monteguemee! Tivo ome Vom be for I - Museum! tot see below have for a reput by _ The tree retrick povers the hills from Monterry it " is P. Filter insignif Do the leaves belong here and the Cone to Mexico ?? while the madette from Tepir of the same expedition is most probably from Monterry, Calif. The two species i that would be correct, and.
The comes transplaced; the large cone (probably not as thick as figured) would belong to the long-leaved 5 leave Mexim piac and The Knobby rome of mosete (insignis) to the short 3 leaved filed of Monterey. In Ken Museum 2 find a come, butles: P. australis? S. Uniles States?? which is eviduly Mexiran and belongs to the tabundets ryludie for 1 Montequence - (Devoniann) - salet 11 inches long - Can that beth "Therlassiana"? It would suit the les ous de " yadata" bet it is ust as thish as here figured

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Times Similaisi Hook & Am. Bos Dechey p. 392 t. 93 Theory of P. Monlyanue leaves the hills from Monterey to Pants Pinos & Sinclair leaves leaves 10-12 mer los, from 3' sometimes in 2 at what the leaves leaves pursett only shot time, the 22 year _ therefore at can't Parleture places it Nº 38 with ponderosa



